

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|----------------------------|---|------------------|---------|------------------|
| L1 | 481 | 424/617.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L2 | 468 | 424/618.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L3 | 449 | 424/630.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L4 | 699 | 424/641.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L5 | 809 | 514/492.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L6 | 699 | 4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L7 | 476 | 514/494.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L8 | 133 | 514/495.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L9 | 15185 | (magnetron adj sputtering) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:45 |
| L10 | 12 | l1 and l9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |
| L11 | 27 | l2 and l9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |

EAST Search History

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|-----|---|-----------|---|----|----|------------------|
| L12 | 5 | I3 and I9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |
| L13 | 3 | I4 and I9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |
| L14 | 6 | I5 and I9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |
| L15 | 2 | I7 and I9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |
| L16 | 5 | I8 and I9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:46 |

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| L1 | 81 | ((magnetron adj sputtering) and antibacterial) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:13 |
| L2 | 11 | I1 and magnetron.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:48 |
| L3 | 2 | "6190407".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:52 |
| L4 | 0 | I2 and ((zirconium or chromium or titanium) with nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:52 |
| L5 | 68377 | ((zirconium or chromium or titanium) with nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:53 |
| L6 | 2593 | I5 and (magnetron with sputtering) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:53 |
| L7 | 1585 | I6 and (silver or zinc or copper) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:53 |
| L8 | 688 | I7 and (silver or zinc or copper).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:53 |
| L9 | 433 | I8 and nitride.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:54 |
| L10 | 53 | I9 and (simultaneous or codeposition) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:55 |
| L11 | 1768 | (magnetron adj sputtering).ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:41 |

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|-----|-----|---|---|----|----|------------------|
| L12 | 6 | l11 and ((silver or zinc or copper). clm. and (zirconium or chromium or titanium).clm.) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:05 |
| L13 | 0 | l11 and codeposition | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:06 |
| L14 | 0 | l11 and co-deposition | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:06 |
| L15 | 153 | l11 and ((zirconium or chromium or titanium) wit nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:06 |
| L16 | 26 | l11 and ((zirconium or chromium or titanium) with nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:17 |
| L17 | 2 | "5985308".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:17 |

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|-----|-----|--|---|----|----|------------------|
| L18 | 96 | ("2103999" "2785153" "4043932" "4054139" "4167045" "4325776" "4341569" "4377675" "4404233" "4411041" "4411648" "4418686" "4443488" "4476590" "4483688" "4520039" "4528208" "4543275" "4564361" "4569673" "4590031" "4592920" "4603152" "4612337" "4615705" "4642104" "4657772" "4664960" "4670292" "4677143" "4683149" "4693760" "4716083" "4718905" "4743308" "4743493" "4846834" "4849223" "4855026" "4867968" "4886505" "4902503" "4906466" "4923450" "4932948" "4933178" "4944961" "4952419" "4960415" "4973320" "5005518" "5019096" "5019601" "5045318" "5047385" "5049140" "5055169" "5057106" "5073382" "5078902" "5080671" "5084096" "5089275" "5098434" "5098582" "5108399" "5123924" "5123927" "5133757" "5152774" "5152783" "5152993" "5180585" "5207706" "5211855" "5223149" "5242706" "5248772" "5320908" "5322520" "5405644" "5427631" "5454886" "5468562" "5474797" "5520664").PN. OR ("5985308"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 07:34 |
| L19 | 12 | l18 and magnetron | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 07:35 |
| L20 | 6 | l19 and ((silver or zinc or copper) and nitride) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 07:38 |
| L21 | 9 | lo.in. and magnetron | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 07:39 |
| L22 | 138 | l11 and (silver or zinc or copper) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 07:42 |

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|-----|------|---|---|----|----|------------------|
| L23 | 17 | I22 and ((zirconium or chromium or titanium) with nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:02 |
| L24 | 0 | "4917963".pn. and (nitride or carbide) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:04 |
| L25 | 3 | "4403014".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:04 |
| L26 | 1 | "4403014".pn. and magnetron | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:04 |
| L27 | 54 | ((magnetron adj sputtering) and antibacterial and silver and nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:02 |
| L28 | 373 | ((magnetron adj sputtering) and (silver with deposition)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:34 |
| L29 | 204 | I28 and silver.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:32 |
| L30 | 35 | L28 and magnetron.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:16 |
| L31 | 29 | L29 and magnetron.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:16 |
| L32 | 121 | I29 and nitride | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:32 |
| L33 | 1234 | ((magnetron adj sputtering) and (nitride with deposition)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:34 |
| L34 | 652 | I33 and nitride.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:34 |

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|-----|------|--|---|----|----|------------------|
| L35 | 481 | I34 and (titanium or chromium or zirconium) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:34 |
| L36 | 3 | I35 and magnetron.ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 10:35 |
| L37 | 108 | ("3635811" "3829373" "4142958" "4361472" "4420385" "4424103" "4637869" "4661229" "4674621" "4675096" "4692233").PN. OR ("4851095"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 10:41 |
| L38 | 49 | I37 and (nitride with titanium or zirconium or chromium) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 10:42 |
| L39 | 34 | I38 and (magnetron with sputtering) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/03/02 10:42 |
| L40 | 2350 | ((magnetron adj sputtering) and nitride and power and (V or volts)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:02 |
| L41 | 795 | I40 and nitride.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:02 |
| L42 | 104 | I41 and magnetron.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 11:02 |

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|---|------------------|---------|------------------|
| S1 | 1249 | ((zirconium adj nitride) and (silver or zinc or copper)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:33 |
| S2 | 367 | S1 and (surface with deposition) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:43 |
| S3 | 8 | S2 and (antibacterial or antimicrobial) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:47 |
| S4 | 14 | S1 and (antibacterial or antimicrobial) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:45 |
| S5 | 6133 | ((metal adj nitride) and (silver or zinc or copper)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:47 |
| S6 | 57 | S5 and (antibacterial or antimicrobial) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:49 |
| S7 | 1659 | S5 and (surface with coated) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:50 |
| S8 | 1059 | S7 and (deposited) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:50 |
| S9 | 618 | S8 and (sputtering) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:50 |
| S10 | 17 | S9 and (antibacterial or antimicrobial) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:51 |
| S11 | 17060 | (magnetron with sputtering) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:51 |

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|-----|------|--|---|----|----|------------------|
| S12 | 5723 | S11 and nitride | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:52 |
| S13 | 1256 | S12 and silver | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:52 |
| S14 | 564 | S13 and zirconium | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:52 |
| S15 | 536 | S14 and (copper or zinc or stainless or ceramic or plastic) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:53 |
| S16 | 252 | S15 and (copper with alloy) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:53 |
| S17 | 14 | S16 and (anti-microbial or antimicrobial or anti-bacterial or antibacterial) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:55 |
| S18 | 127 | S16 and silver.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:58 |
| S19 | 847 | S11 and silver.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:58 |
| S20 | 226 | S19 and sputtering.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 06:58 |
| S21 | 14 | S20 and (zirconium adj nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:01 |
| S22 | 30 | S11 and (silver with impregnated) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:03 |
| S23 | 73 | S11 and (silver with (impregnated or dispersed)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:03 |

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|-----|-------|--------------------------------------|---|----|----|------------------|
| S24 | 2 | S23 and (zirconium with nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:05 |
| S25 | 11 | S23 and zirconium | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:06 |
| S26 | 43 | S23 and nitride | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:06 |
| S27 | 2 | "5837275".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:14 |
| S28 | 0 | S27 and (zirconium) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:17 |
| S29 | 17060 | (magnetron with sputtering) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:37 |
| S30 | 70 | (nitride with silver with dispersed) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:18 |
| S31 | 16 | S30 and zirconium | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:19 |
| S32 | 4309 | S29 and (surface with deposition) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:19 |
| S33 | 423 | S32 and zirconium and silver | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:19 |
| S34 | 1 | S33 and (silver with dispersed) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:20 |
| S35 | 145 | S33 and (zirconium with nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:20 |

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|-----|------|---------------------------------|---|----|----|------------------|
| S36 | 86 | S35 and (zirconium with silver) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:24 |
| S37 | 0 | ("4322276" and "5454886").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:25 |
| S38 | 2 | "4322276".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:25 |
| S39 | 0 | S38 and nitide | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:25 |
| S40 | 0 | S38 and nitride | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:25 |
| S41 | 2 | ("5454886".pn. and nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:36 |
| S42 | 0 | S41 and zirconium | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:26 |
| S43 | 0 | ("5454886".pn. and zirconium) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:36 |
| S44 | 657 | S29 and (silver with coating) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:38 |
| S45 | 80 | S44 and (nitride with surface) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:38 |
| S46 | 45 | S45 and zirconium | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/02 07:38 |
| S47 | 2197 | (magnetron and sputtering).ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:33 |

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|-----|--------|--|---|----|----|------------------|
| S48 | 281982 | ((silver or zinc or copper) and (zirconium or chromium or titanium)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:35 |
| S49 | 77 | S47 and S48 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:35 |
| S50 | 1088 | "I4" and nitride | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:35 |
| S51 | 40 | S49 and nitride | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:35 |
| S52 | 2 | "4917963".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:37 |
| S53 | 6 | S51 and (silver or zinc or copper). clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/02 06:38 |